30 MM 1633

Reg. No.	Reg. No.										
----------	----------	--	--	--	--	--	--	--	--	--	--

Question Paper Code

11654

B.E./B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Fourth Semester

Computer Science and Engineering 20CSPC403 - OBJECT ORIENTED SOFTWARE ENGINEERING

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

$PART - A (10 \times 2 = 20 Marks)$

Answer ALL Questions

		Answer ALL Questions					
			Marks,				
1.	Defi	ne Software engineering.	K-Level,CO 2,K1,CO1				
2.	If you have developed a word processing software product, what process model will you choose justify your answer?						
3.	Clas	sify the following Functional and Non-Functional Requirements for king system	2,K3,CO2				
		erifying bank balance					
	Control of the latest	Vithdrawing money from bank					
		ompletion of transaction in less than one second					
		xtending the system by providing more tellers for customers.					
4.		ne the term software architecture.	2,K1,CO2				
5.	List	the Relationship used in Use cases.	2,K2,CO3 2,K2,CO5				
6.	Differentiate Fork and Joint.						
7.	Distinguish between coupling and cohesion.						
8.	8. State the Use of Design Pattern.						
9. Compare white box and black box testing.							
10.	Wha	at is refactoring?	2,K1,CO4				
		DADE DE 12 (5 Marks)					
		PART - B (5 × 13 = 65 Marks) Answer ALL Questions					
11.	a)	Neatly explain the water fall model and write their advantages and disadvantages.	13,K2,CO1				
		OR					
	b)	What is agility? Explain in detail about Agile Process and principles.	13,K1,CO1				
12.	a)	Describe the requirement validation and requirement management process in detail.	13,K1,CO2				
		OR	10 VO GG2				
	b)	Explain about the various design concepts considered during design.	13,K2,CO2				
K1 –	Reme	mber; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create	11654				

13. a) What do you mean by Unified Process in OOAD? Explain the ^{13,K1,CO3} phases with suitable diagrams.

OR

- b) When to Use Activity Diagram. Describe the situation with an 13,K1,CO3 example.
- 14. a) What is GRASP? Explain the design patterns and the principles used in ^{13,K1,CO6} it.

OR

b) What is design pattern? Explain the GoF design patterns.

13,K1,CO6

15. a) What is black box testing? Explain the different types of black box 13,K1,CO5 testing strategies. Explainby considering suitable examples.

OR

b) List the phases in software re-engineering process model and explain 13,K1,CO4 each phase.

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Explain the state chart diagram with a suitable example. Also define its 15,K4,CO5 components and use.

OR

b) Assume that you are technical manager of software development organization. A client approached you for a software solution. The problems stated by client have uncertainties which lead to loss if it is NOT planned and solved. Which software development model you will suggest for this project- Justify .Explain that model with its pros and cons and neat sketch.